

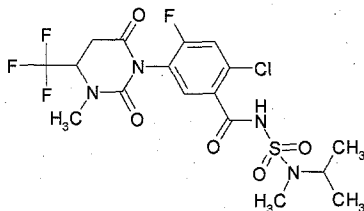
**Data Evaluation Report on the effects of BAS 800 H metabolite M08 on aquatic vascular plants**  
**PMRA Submission Number: 2008-0431** **MRID#: 47560306**  
**PMRA# for DER: 1682000** **PMRA# for original study: 1664722**

## Data requirement

PMRA Data Code: 9.8.5  
 EPA DP Barcode: 349851  
 OECD Data Point: IIA 8.6  
 EPA Guideline: § 123-2  
 OPPTS Guideline: 850.4400

**Test material:** **BAS 800 H metabolite M08** **Purity: 97.2%**

**Common name:** M800H08  
**IUPAC:** N-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-(trifluoromethyl)tetrahydro-1(2H)-pyrimidinyl)benzoyl]-N-isopropyl-N-methylsulfamide  
**CAS name:** n/a  
**CAS No.:** n/a  
**Synonyms:** Reg.No. 4773881  
**Structural formula:**



**Primary Reviewer:** Janine Glaser (1009)  
 Canada-HC-PMRA-EAD

**Date:** 2008-Dec-16

**Secondary Reviewers:** Anita Pease  
 United States-EPA-OPP-EFED-ERB4

**Date:** 2009-Jun-09

Farzad Jahromi  
 Australia-DEWHA-CAS

**Date:** 2009-Feb-2

**PMRA Company Code** BAZ  
**PMRA Active Code** SFF  
**PMRA Use Site Category** 13, 14  
**EPA PC Code** 118203



**CITATION:** Porch JR, Kendall TZ, Krueger HO, Holmes C. 2008. BAS 800 H metabolite M08: A 7-day toxicity test with duckweed (*Lemna gibba* G3). 2008-Aug-28. BASF-2008/7013851; MRID-47560306; PMRA-1664722.

## **EXECUTIVE SUMMARY**

In a 7-day toxicity study, cultures of the duckweed *Lemna gibba* were exposed to M800H08 (metabolite of BAS 800 H, 97.2% purity) in a static system at nominal concentrations of 0, 3.9, 6.5, 11, 18, and 30 mg/L. Mean measured concentrations were 0, 2.0, 2.5, 5.2, 9.8, and 17 mg/L representing 51, 39, 47, 54, and 58% of nominal concentrations, respectively. Three replicates were prepared for the treatment groups, each containing four plants totaling 12 fronds. Growth rate and yield based on frond number and biomass (dry weight), and visual assessment of frond abnormalities were used to determine the endpoints. Biological endpoints are reported corresponding to the mean measured concentrations. Necrosis was extensive in the two highest test concentrations (8.5-19% at 9.8 mg/L; 23-35% at 17 mg/L), and chlorosis was also observed to a limited extent (1.1-2.8% at 9.8 mg/L; 1.7-3.7% at 17 mg/L). Root destruction was also observed at the highest dose. Significant inhibition of frond number and biomass yields and growth rates was observed at 9.8 and 17 mg/L after 7 days (NOEC 5.2 mg/L). The lowest point estimates were 7d EC50 12 mg/L and 7d EC05 2.2 mg/L, both based on biomass yield.

This study is classified as **ACCEPTABLE/ FULLY RELIABLE**. The results are suitable for use in regulatory risk assessment.

### **Results Synopsis**

Test item: M800H08  
Test organism: *Lemna gibba*

#### **Endpoint**

7d EC50 (mg/l)	12	biomass yield
7d EC05 (mg/l)	2.2	biomass yield
7d LOEC (mg/l)	9.8	frond number yield and growth rate; biomass yield and growth rate
7d NOEC (mg/l)	5.2	frond number yield and growth rate; biomass yield and growth rate

## **I. MATERIALS AND METHODS**

Guideline: OECD 221 (2006), ASTM 1415-91E (1991), OPPTS 850.4400 (1996)  
GLP: yes (certified laboratory), non-GLP data were periodic analyses of well water for potential contaminants (appendix 4, page 34) and range-finding results (Table 1, page 20)  
Testing facility: Wildlife International Ltd, Easton, Maryland, USA  
Dates of work: 2008-Jul-30 to 2008-Aug-28  
Deviations: The maximum recorded temperature was 27.2°C, which exceeded the range of 25±2°C. Initial biomass was estimated using an average of three representative samples of the inoculum culture rather than a single sample. Chemical analysis of the samples was performed using an analytical method that was not validated.

### **A. Test substance**

Name: Reg.No. 4773881  
 Code: M800H08  
 Type: metabolite of BAS 800 H  
 Description: solid  
 Batch No.: L74-66  
 Purity: 97.2%  
 Expiry date: 2010 Feb 01  
 Dosing vehicle: 20X AAP medium

**Table 1: Physical and chemical properties of test substance**

Parameter	Value
Water solubility	31.71 mg/l at 25°C (estimated)
Vapour pressure	not determined
UV absorption	not determined
pK <sub>a</sub>	not determined
log K <sub>ow</sub>	-0.51±1.01 (neutral pH) -2.51±1.01 (acidic pH)
Stability under test conditions	measured concentrations declined 64-97% after 7 days; the lower the test concentration the greater the decline, loss likely attributed to adsorption to / absorption by the increasing plant biomass

**B. Toxic reference**

None.

**C. Test organism**

Species: *Lemna gibba*  
 Strain: G3  
 Source: in-house culture originally obtained from USDA  
 Culture conditions: two weeks in 20X AAP medium prior to test initiation

**D. Culture medium**

Standard freshwater 20X AAP medium as per ASTM 1415-91E using stock nutrient solutions and purified well water (Appendix 4, page 34). Adjusted to pH 7.5 and sterilized by filtration prior to use.

**E. Design of biological test**

7-d exposure in standard 20X AAP medium. A 30 mg/l stock solution in 20X AAP medium was prepared, which was slightly cloudy with a beige tint. This also served as the highest test concentration. Remaining test solutions were clear and colourless. 6 treatment groups (nominal concentrations of 0, 3.9, 6.5, 11, 18, and 30 mg/L); 3 replicates/treatment group. Each replicate contained four plants totaling 12 fronds and 100 mL test solution in 250mL glass beaker covered with disposable Petri dishes indiscriminately positioned daily in an environmental chamber.

Nominal test concentrations were based upon a range finding toxicity test at 0, 0.49, 1.6, 5.4, 18, and 60 mg/L with 0, 27, 26, 25, 35, and 92% inhibition. At 18 mg/L, fronds were curled. At 60 mg/L, fronds were small (four dead, 12 necrotic) and colonies were broken up.

## F. Observation and measurements

On day 0, 3, 5, and 7, direct counts of frond numbers and observations of chlorosis, necrosis, breakup of colonies, death, root destruction, and any other abnormalities were performed. Biomass (dry weight) was determined at the beginning of the test from three representative samples of the inoculum culture (each sample 4 plants totaling 12 fronds), and at the end of the exposure period for each replicate.

## II. RESULTS

### A. Test conditions

Start pH: 7.7-7.9  
End pH: 8.6-9.0 (increased over time but not more than 1.5 units)  
Solution temperature: 24.0-26.6°C  
Photoperiod: continuous illumination  
Light intensity: 4350-5710 lux

### B. Verification of test concentrations

Test concentrations were analytically verified by HPLC using variable wavelength detection set at 220nm. The LOQ was 2.06 mg/L and the LOD was 0.0250 mg/L. After 7 days, measured concentrations from the two lowest treatment groups (3.9 and 6.5 mg/L) were less than the LOQ (2.06 mg/L), and measured concentrations in the three highest treatment groups declined to 23-34% of nominal values (Table 2).

**Table 2: Measured concentrations of M08 in test samples**

Nominal (mg/l)	Time (days)	Measured (mg/l)	% of nominal	Mean measured* (mg/l)	Mean % of nominal
0	0	<LOQ	—	—	—
	7	<LOQ	—		
3.9	0	3.80	97.3	2.0	51
	7	<LOQ	—		
6.5	0	6.25	96.1	2.5	39
	7	<LOQ	—		
11	0	10.6	96.4	5.2	47
	7	2.51	22.8		
18	0	17.8	98.7	9.8	54
	7	5.39	29.9		
30	0	29.6	98.5	17	58
	7	10.2	34.2		

\*Geometric mean. For concentrations <LOQ, a value of 1.03 (1/2 the LOQ) was used for computation

### C. Biological findings

Necrosis was extensive in the two highest test concentrations (8.5-19% at 18 mg/L; 23-35% at 30 mg/L), and chlorosis was also observed to a limited extent (1.2-2.8% at 18 mg/L; 1.7-3.7% at 30 mg/L) (Table 3). Root destruction was also observed at the highest test concentration. Regulatory Authority refers to direct analysis of frond number and biomass as "yield" parameters. Significant inhibition of frond number and biomass yields (Table 4) and growth rates (Table 5) was observed

at 18 and 30 mg/L after 7 days.

**Table 3: Mean percentage of frond abnormalities**

Mean measured (mg/L)	Day 3				Day 5				Day 7			
	N*	Dead	Chlorotic	Necrotic	N*	Dead	Chlorotic	Necrotic	N*	Dead	Chlorotic	Necrotic
0	32	0.00	1.01	0.00	81	0.00	0.00	0.40	184	0.00	0.00	0.17
2.0	34	0.00	0.00	0.93	87	0.00	0.00	0.37	205	0.00	0.19	0.30
2.5	31	0.00	0.00	0.00	77	0.00	0.00	0.85	181	0.00	0.18	0.18
5.2	30	0.00	0.00	2.19	77	0.00	0.00	0.87	168	0.00	0.19	0.60
9.8	26	0.00	0.00	18.84	61	0.00	2.81	11.17	121	0.00	1.16	8.52
17	24	0.00	0.00	35.08	54	0.00	3.73	33.06	94	0.70	1.72	23.41

\* N = mean number of fronds per treatment

**Table 4: Mean yield and percent inhibition after 7 days**

Mean measured (mg/L)	Frond number		Biomass	
	Mean yield (fronds)	% Inhibition	Mean yield (fronds)	% Inhibition
0	184	—	23.3	—
2.0	205	-11	27.7	-19
2.5	181	1.6	22.7	2.6
5.2	168	8.7	22.3	4.3
9.8	121*	34	14.8*	36
17	94*	49	7.1*	70

\*significantly different from control (Dunnett's test,  $p < 0.05$ )

**Table 5: Mean growth rate and percent inhibition after 7 days**

Mean measured (mg/L)	Frond number		Biomass	
	Mean growth rate (fronds per day)	% Inhibition	Mean growth rate (fronds per day)	% Inhibition
0	0.389	—	0.406	—
2.0	0.404	-4.0	0.430	-5.8
2.5	0.387	0.37	0.403	0.74
5.2	0.377	3.1	0.401	1.3
9.8	0.329*	15	0.346**	15
17	0.295*	24	0.243*	40

\*significantly different from control (Dunnett's test,  $p < 0.05$ )

\*\* study authors reported significant different from control (Dunnett's test,  $p < 0.05$ ); however, the Regulatory Authority did not detect significant difference at this dose; nevertheless, the Regulatory Authority concludes that this inhibition observed at this dose is biologically relevant

#### **D. Test with toxic reference substance**

None.

#### **E. Validity criteria**

The validity criterion of control frond number doubling time  $< 2.5$  days was fulfilled (1.8 days, page 15).

#### F. Biological endpoints derived

The EC50, LOEC, and NOEC values corresponding to mean measured concentration were determined by the study authors and verified by the Regulatory Authority. Dunnett's test was used for hypothesis testing (or Bonferroni t-test if auxillary tests indicated non-normal distribution or unequal variances) and linear interpolation was used for derivation of point estimates. The Regulatory Authority also derived EC05 values for EPA purposes if needed:

**Table: Biological endpoints derived**

Endpoint	Frond number		Biomass	
	Yield	Growth rate	Yield	Growth rate
EC50 (mg/L) (95% CI)	>17	>17	12 (7.0-16)	>17
EC05 (mg/L) (95% CI)	2.4 (1.8-8.6)	5.2 (0.0-7.5)	2.2 (2.1-4.9)	5.5 (0.0-7.1)
LOEC (mg/L)	9.8	9.8	9.8	9.8*
NOEC (mg/L)	5.2	5.2	5.2	5.2*

n/c not calculable

\* Regulatory Authority was not able to verify that 9.8mg/L was statistically different from control, but concludes that the inhibition observed at this dose was biologically relevant.

### III. STUDY DEFICIENCIES

Measured concentrations of M08 fell below 80% of the measured initial concentration. Therefore, a semi-static test regime should have been employed. In circumstances where measured test concentrations are not maintained within  $\pm 20\%$  throughout the test, the biological endpoints can correspond to mean measured concentrations. Therefore, the classification of the study is not affected.

The highest test concentration (initial measured 30 mg/L) was slightly cloudy with a beige tint; however, adverse effects were observed at the next highest concentration (initial measured 18 mg/L) which was clear and colourless. Therefore, adverse effects could be attributed to toxicity of dissolved test substance and the classification of the study is not affected.

### V. CONCLUSIONS

This study is classified as **ACCEPTABLE/ FULLY RELIABLE**. The study appears to have been well conducted and reported. The results are suitable for use in regulatory risk assessment. Significant inhibition of frond number and biomass yields and growth rates was observed at 9.8 and 17 mg/L after 7 days (NOEC 5.2 mg/L). The lowest point estimates were 7d EC50 12 mg/L and 7d EC05 2.2 mg/L, both based on biomass yield.

### VI. REFERENCES

Oostlander M, Killins R, Barton W, Forster G, Drew L, Sandhu R. 2008. Application for BAS 800 H applied pre-seed/ pre-emerge and to chemfallow, pre-plant to soybean, and pre-plant or pre-plant incorporated to corn-field and sweet corn. 2008-Jan-14. BASF-2008/7002707; MRID-47560306; PMRA-1546730.

# Data Evaluation Report on the effects of BAS 800 H metabolite M08 on aquatic vascular plants

PMRA Submission Number: 2008-0431

MRID#: 47560306

PMRA# for DER: 1682000

PMRA# for original study: 1664722

## APPENDIX

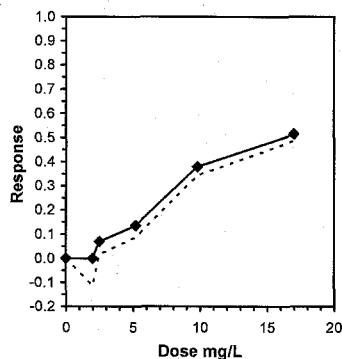
### 7d frond number yield

Lemna gibba-7d frond number Y			
Start Date:	30/07/2008	Test ID:	1664722
End Date:	28/08/2008	Sample ID:	8648-M800H08, Reg. no. 4773881
Sample Date:		Lab ID:	WI-Wildlife International
Comments:		Sample Type:	MET-metabolite of active ingredient
		Protocol:	OECD221-Lemna sp. growth Test Species:
			LG-Lemna gibba
Conc-mg/L	1	2	3
negative control	198.00	154.00	199.00
2	176.00	218.00	220.00
2.5	172.00	186.00	184.00
5.2	159.00	172.00	172.00
9.8	128.00	132.00	102.00
17	98.00	93.00	92.00

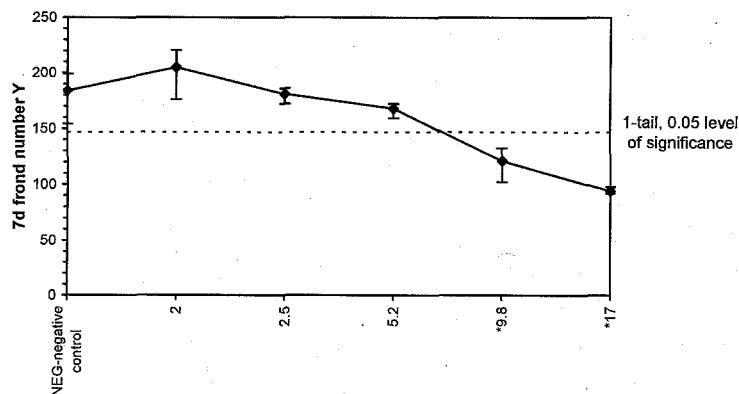
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Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	1-Tailed Critical	MSD	Isotonic Mean	N-Mean
negative control	183.67	1.0000	183.67	154.00	199.00	13.991	3				194.17	1.0000
2	204.67	1.1143	204.67	176.00	220.00	12.140	3	-1.543	2.681	36.49	194.17	1.0000
2.5	180.67	0.9837	180.67	172.00	186.00	4.191	3	0.220	2.681	36.49	180.67	0.9305
5.2	167.67	0.9129	167.67	159.00	172.00	4.476	3	1.176	2.681	36.49	167.67	0.8635
*9.8	120.67	0.6570	120.67	102.00	132.00	13.499	3	4.629	2.681	36.49	120.67	0.6215
*17	94.33	0.5136	94.33	92.00	98.00	3.408	3	6.564	2.681	36.49	94.33	0.4858

Auxiliary Tests				Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)				0.87897	0.897	-1.0292	0.28471
Bartlett's Test indicates equal variances (p = 0.15)				8.11665	15.0863		
Hypothesis Test (1-tail, 0.05)				NOEC	LOEC	ChV	TU
Bonferroni t Test				5.2	9.8	7.13863	36.4873
Treatments vs NEG-negative control							0.19866
							5333.26
							277.833
							2.4E-05
							5, 12

Linear Interpolation (200 Resamples)					
Point	mg/L	SD	95% CL(Exp)	Skew	
IC05	2.360	0.882	1.833	8.590	1.7440
IC10	3.729	1.240	0.789	8.764	0.5415
IC15	5.457	1.074	0.074	8.556	-0.4504
IC20	6.407	0.788	3.369	9.617	0.2790
IC25	7.357	0.765	4.896	10.949	0.4892
IC40	10.939	1.548	6.239	17.570	0.3526
IC50	16.248				



Dose-Response Plot



7d frond number growth rate

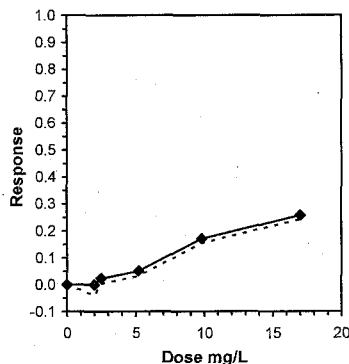
Lemna gibba-7d frond number GR					
Start Date:	30/07/2008	Test ID:	1664722	Sample ID:	8648-M800H08, Reg. no. 4773881
End Date:	28/08/2008	Lab ID:	WI-Wildlife International	Sample Type:	MET-metabolite of active ingredient
Sample Date:		Protocol:	OECD221-Lemna sp. growth	Test Species:	LG-Lemna gibba

Conc-mg/L	1	2	3
negative control	0.4005	0.3646	0.4012
2	0.3837	0.4142	0.4155
2.5	0.3804	0.3915	0.3900
5.2	0.3691	0.3804	0.3804
9.8	0.3382	0.3426	0.3057
17	0.3000	0.2925	0.2910

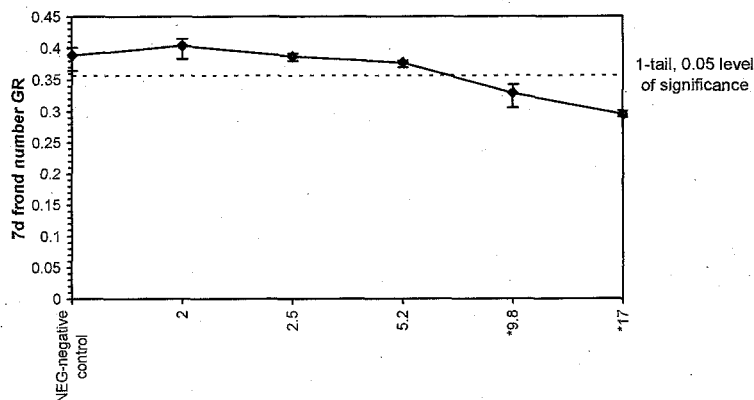
		Transform: Untransformed							1-Tailed			Isotonic	
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean	
negative control	0.3888	1.0000	0.3888	0.3646	0.4012	5.386	3				0.3966	1.0000	
2	0.4045	1.0404	0.4045	0.3837	0.4155	4.460	3	-1.323	2.681	0.0319	0.3966	1.0000	
2.5	0.3873	0.9963	0.3873	0.3804	0.3915	1.564	3	0.122	2.681	0.0319	0.3873	0.9765	
5.2	0.3766	0.9688	0.3766	0.3691	0.3804	1.721	3	1.021	2.681	0.0319	0.3766	0.9496	
*9.8	0.3288	0.8458	0.3288	0.3057	0.3426	6.118	3	5.045	2.681	0.0319	0.3288	0.8291	
*17	0.2945	0.7576	0.2945	0.2910	0.3000	1.639	3	7.932	2.681	0.0319	0.2945	0.7426	

Auxiliary Tests					Statistic		Critical	Skew	Kurt				
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)					0.87104		0.897	-0.9654	-0.1194				
Bartlett's Test indicates equal variances (p = 0.28)					6.31593		15.0863						
Hypothesis Test (1-tail, 0.05)					NOEC	LOEC	ChV	TU					
					MSDu	MSDp	MSB	MSE	F-Prob				
Bonferroni t Test					5.2	9.8	7.13863	0.03185	0.08194	0.00541	0.00021	5.2E-06	5, 12
Treatments vs NEG-negative control													

Linear Interpolation (200 Resamples)					
Point	mg/L	SD	95% CL(Exp)	Skew	
IC05	5.161	1.101	0.000	7.485	-0.4152
IC10	7.093	0.680	4.401	9.666	0.3150
IC15	9.001	0.966	5.928	13.556	0.5306
IC20	12.219	1.626	5.442	16.758	-0.2176
IC25	16.380				
IC40	>17				
IC50	>17				



Dose-Response Plot



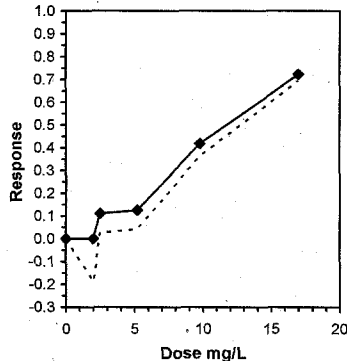
## 7d biomass yield

Lemna gibba-7d biomass Y			
Start Date:	30/07/2008	Test ID:	1664722
End Date:	28/08/2008	Sample ID:	8648-M800H08, Reg. no. 4773881
Sample Date:		Lab ID:	WI-Wildlife International
Comments:		Sample Type:	MET-metabolite of active ingredient
		Protocol:	OECD221-Lemna sp. growth
		Test Species:	LG-Lemna gibba
Conc-mg/L	1	2	3
negative control	23.167	20.567	26.167
2	24.767	29.067	29.267
2.5	21.867	24.067	22.167
5.2	22.667	22.167	22.067
9.8	16.267	16.467	11.767
17	9.667	8.867	2.767

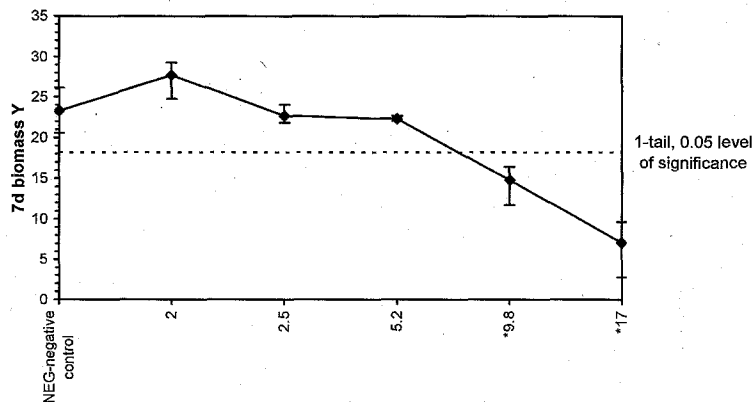
Transform: Untransformed												
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	1-Tailed Critical	MSD	Isotonic Mean	Isotonic N-Mean
negative control	23.300	1.0000	23.300	20.567	26.167	12.027	3				25.500	1.0000
2	27.700	1.1888	27.700	24.767	29.267	9.178	3	-2.166	2.500	5.079	25.500	1.0000
2.5	22.700	0.9742	22.700	21.867	24.067	5.256	3	0.295	2.500	5.079	22.700	0.8902
5.2	22.300	0.9571	22.300	22.067	22.667	1.442	3	0.492	2.500	5.079	22.300	0.8745
*9.8	14.833	0.6366	14.833	11.767	16.467	17.917	3	4.167	2.500	5.079	14.833	0.5817
*17	7.100	0.3047	7.100	2.767	9.667	53.155	3	7.974	2.500	5.079	7.100	0.2784

Auxiliary Tests				Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.05$ )				0.9201	0.897	-0.6832	-0.4684
Bartlett's Test indicates equal variances ( $p = 0.20$ )				7.22969	15.0863		
Hypothesis Test (1-tail, 0.05)				NOEC	LOEC	ChV	TU
Dunnett's Test				5.2	9.8	7.13863	
Treatments vs NEG-negative control				5.07923	0.21799	165.092	6.19167
				4.2E-06	5, 12		

Linear Interpolation (200 Resamples)					
Point	mg/L	SD	95% CL(Exp)	Skew	
IC05	2.228	0.416	2.054	4.938	5.6853
IC10	2.455	1.241	2.108	9.105	1.0486
IC15	5.585	1.221	0.000	7.285	-1.3987
IC20	6.371	0.483	4.464	8.344	0.2520
IC25	7.156	0.511	5.362	9.510	0.3078
IC40	9.513	0.779	6.854	13.177	0.1122
IC50	11.740	1.050	7.127	15.763	-0.3639



Dose-Response Plot



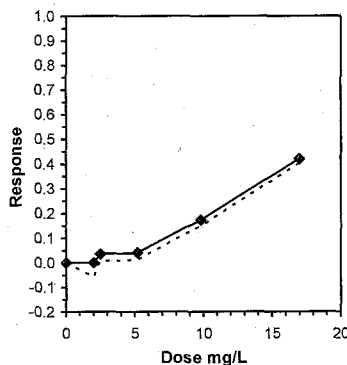
### 7d biomass growth rate

Lemna gibba-7d biomass GR					
Start Date:	30/07/2008	Test ID:	1664722	Sample ID:	8648-M800H08, Reg. no. 4773881
End Date:	28/08/2008	Lab ID:	WI-Wildlife International	Sample Type:	MET-metabolite of active ingredient
Sample Date:		Protocol:	OECD221-Lemna sp. growth	Test Species:	LG-Lemna gibba
Comments:					
Conc-mg/L	1	2	3		
negative control	0.4061	0.3902	0.4225		
2	0.4151	0.4368	0.4378		
2.5	0.3984	0.4112	0.4002		
5.2	0.4032	0.4002	0.3996		
9.8	0.3591	0.3607	0.3172		
17	0.2924	0.2817	0.1536		

Conc-mg/L	Mean	N-Mean	Transform: Untransformed				N	1-Tailed			Isotonic	
			Mean	Min	Max	CV%		t-Stat	Critical	MSD	Mean	N-Mean
negative control	0.4063	1.0000	0.4063	0.3902	0.4225	3.987	3				0.4181	1.0000
2	0.4299	1.0582	0.4299	0.4151	0.4378	2.980	3	-0.844	2.681	0.0751	0.4181	1.0000
2.5	0.4033	0.9926	0.4033	0.3984	0.4112	1.729	3	0.108	2.681	0.0751	0.4033	0.9645
5.2	0.4010	0.9870	0.4010	0.3996	0.4032	0.481	3	0.189	2.681	0.0751	0.4010	0.9591
9.8	0.3456	0.8508	0.3456	0.3172	0.3607	7.138	3	2.165	2.681	0.0751	0.3456	0.8267
*17	0.2426	0.5971	0.2426	0.1536	0.2924	31.848	3	5.846	2.681	0.0751	0.2426	0.5802

Auxiliary Tests					Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)					0.85088	0.897	-1.4946	5.16801		
Bartlett's Test indicates unequal variances (p = 1.79E-03)					19.1648	15.0863				
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Bonferroni t Test	9.8	17	12.9074		0.07507	0.18478	0.01427	0.00118	2.4E-04	5, 12
Treatments vs NEG-negative control										

Linear Interpolation (200 Resamples)				
Point	mg/L	SD	95% CL(Exp)	Skew
IC05	5.516	1.117	0.000	7.154
IC10	7.254	0.574	5.493	9.927
IC15	8.992	0.813	6.186	12.030
IC20	10.581	0.956	6.923	14.422
IC25	12.042	1.232	8.047	17.387
IC40	16.422			
IC50	>17			



Dose-Response Plot

